



Launch and Landing of Russian Soyuz – Medical Support for US and Partner Astronauts

Aerospace Medical Association Annual Meeting
Denver, Colorado
1 May 2017

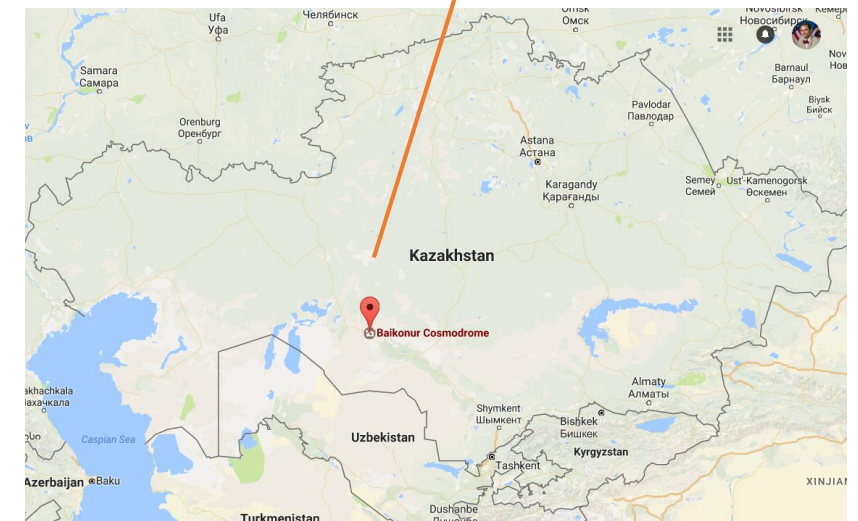
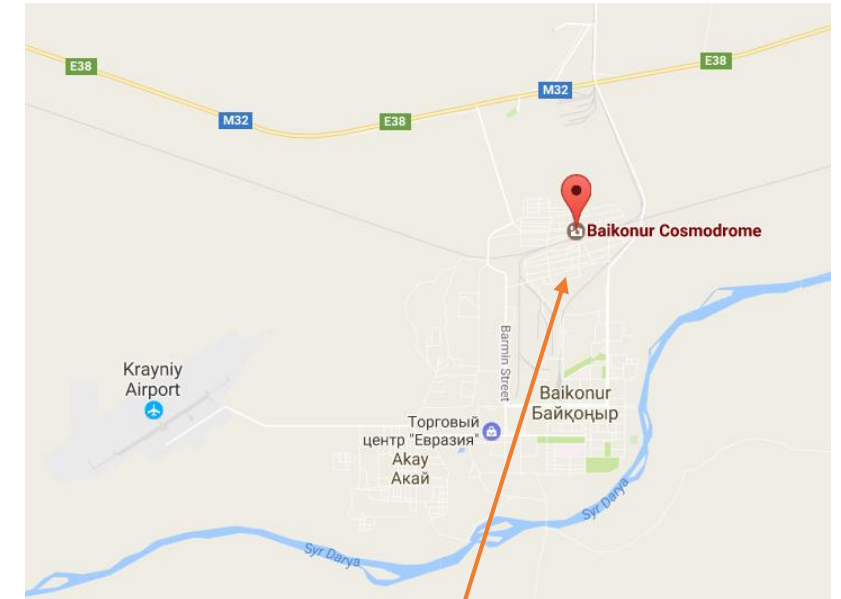
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- Launch – Baikanour
 - USOS 1 Crew Surgeon, 1 Deputy Crew Surgeon, 1 Russian Based US Physician
 - IP – 1 IP Surgeon
- Landing – Kazakhstan
 - USOS 1 Crew Surgeon, 1 Deputy Crew Surgeon, 1 Russian Based US physician
 - IP – 1 IP Surgeon
 - Direct Return Doctor





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- **Launch - Roles**

- USOS Crew Surgeon – Quarantine and direct care to crew before launch, then present in close proximity to launch for abort.
- IP Crew Surgeon – same
- Deputy Crew Surgeon – Back up for crew surgeon, care for immediate family, stationed at airport for helicopter abort response
- Russian based US doctor – Coordinate with SOS staff

- **Landing – Roles**

- USOS Crew Surgeon – Nominal helicopter response and initial medical care and support during return on gulfstream
- IP Crew Surgeon – same
- Deputy Crew Surgeon – Ballistic helicopter support
- Russian based US doctor – Coordinate with SOS staff
- Direct return doctor – Direct medical care on return flight



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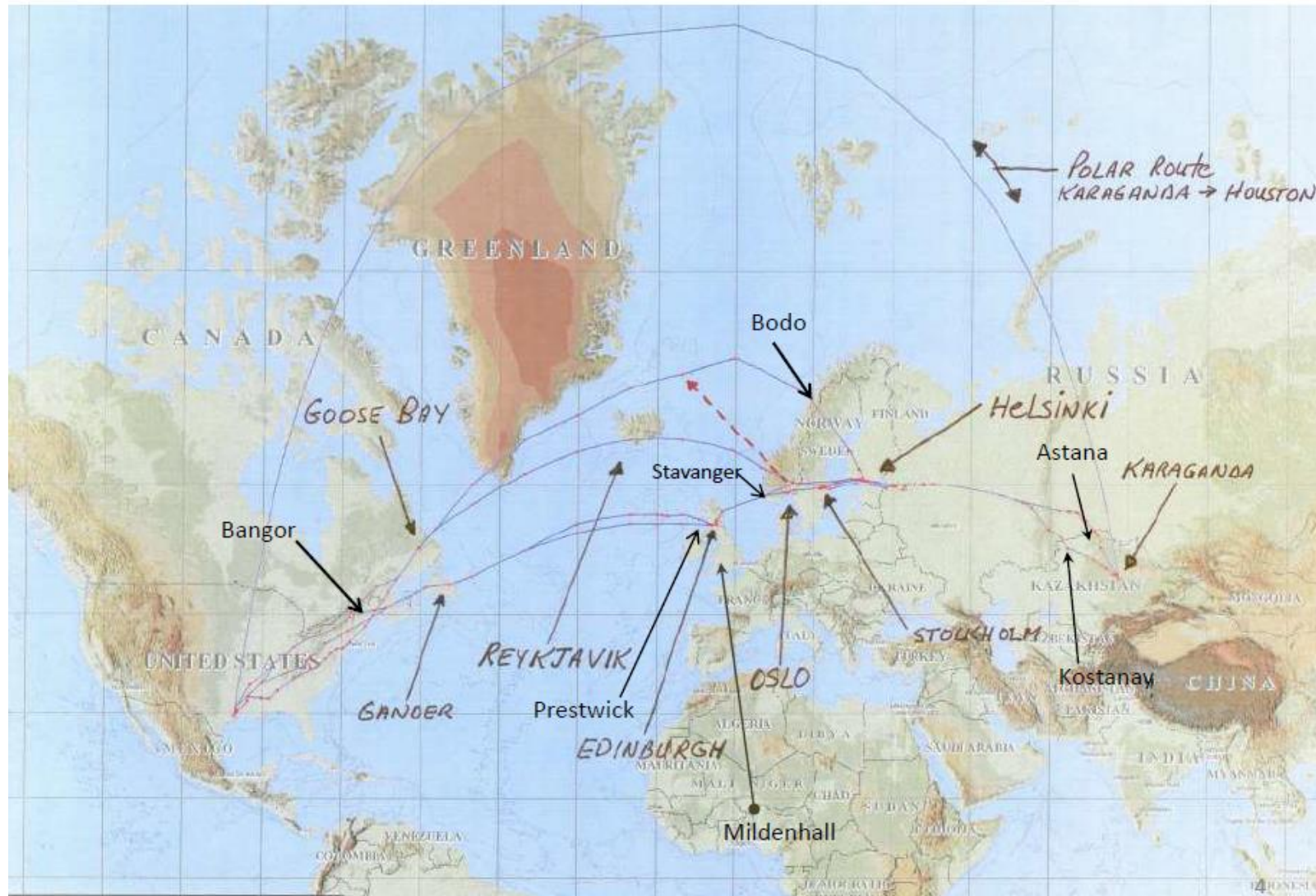




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R+0 Route of Flight





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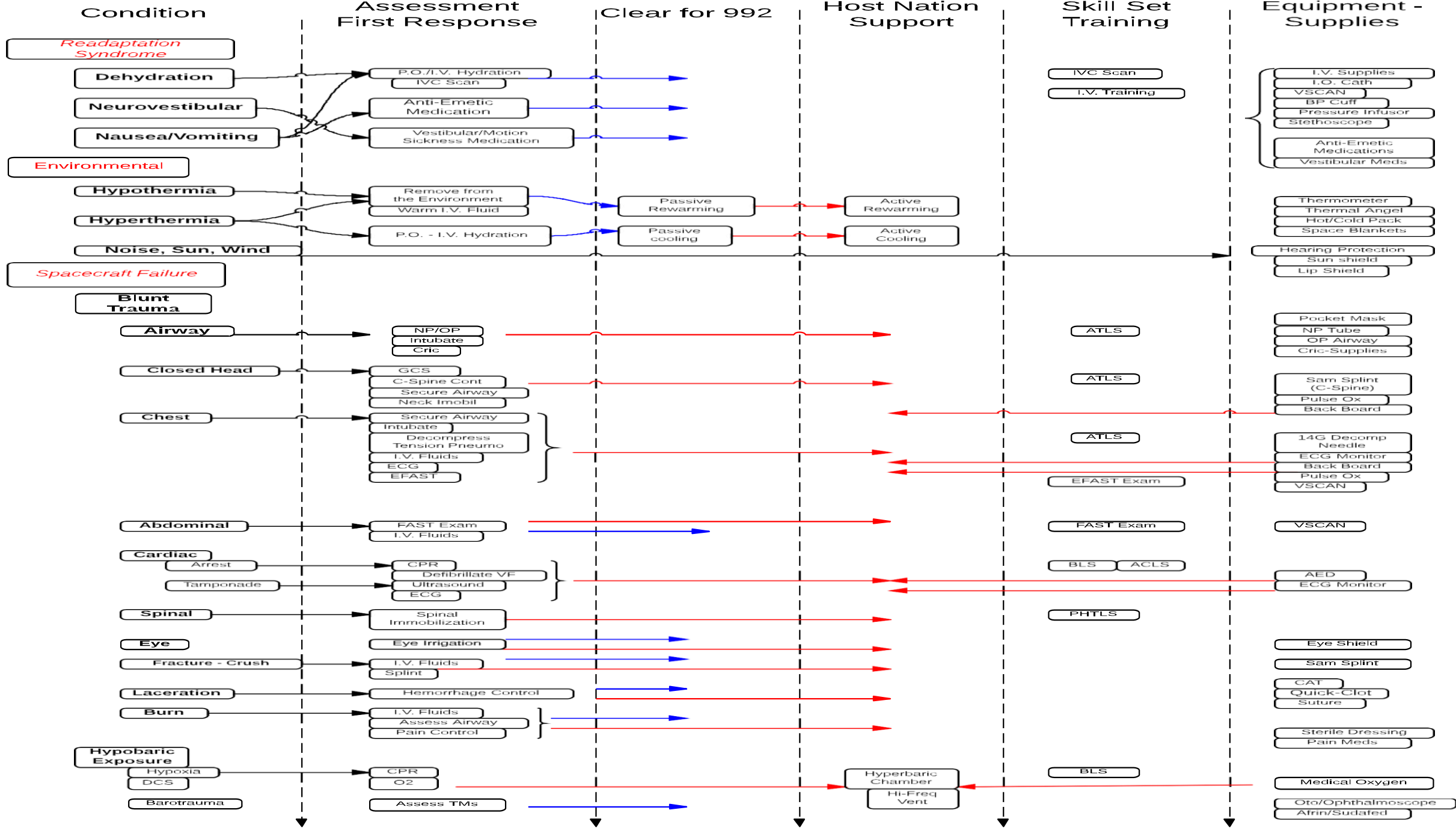


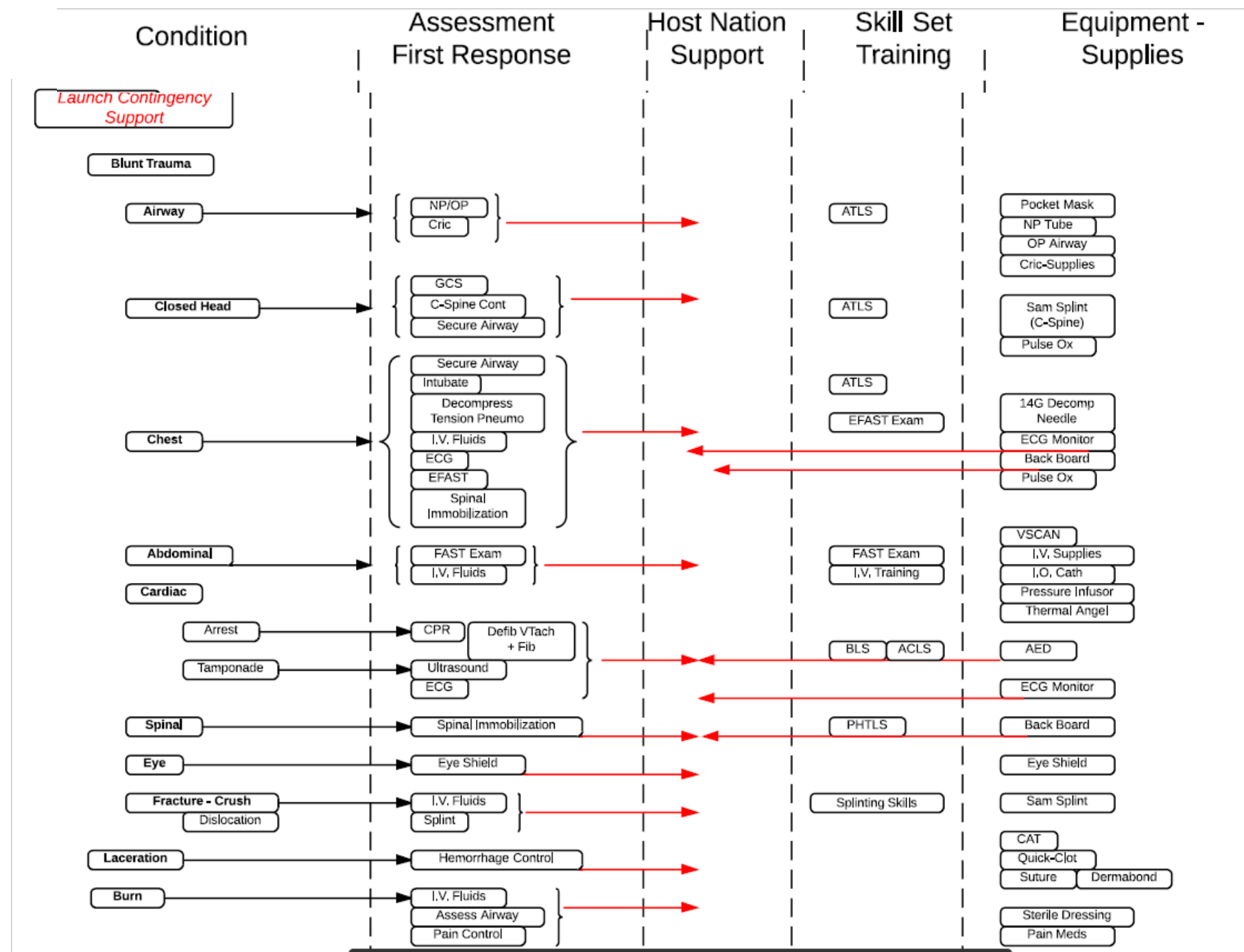
- Launch - Capabilities

- Trauma Kit
- Launch specific supplement
- Local facilities
- Russia based US doctor for coordination

- Landing – Capabilities

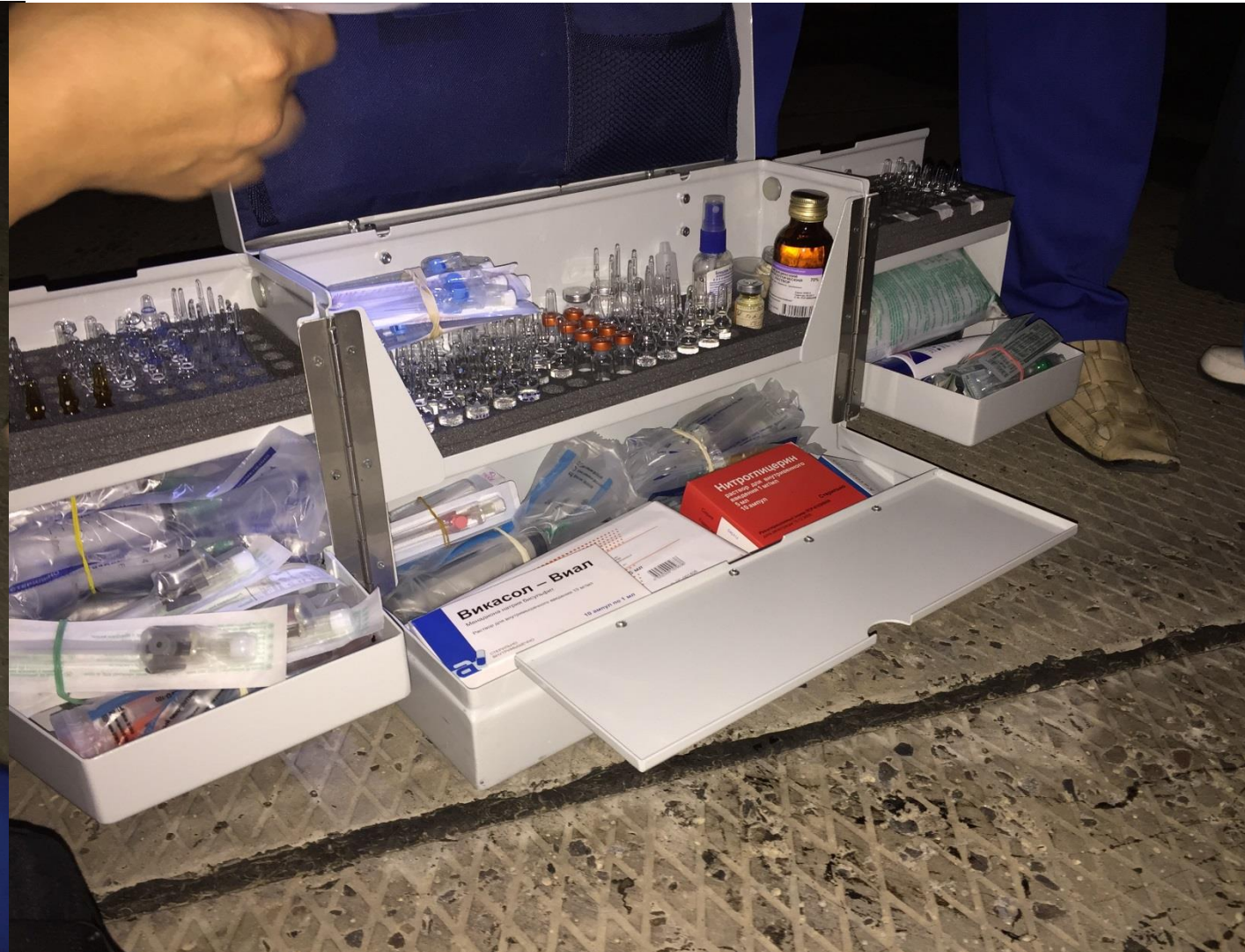
- Trauma Kit
- Ultrasound, Vscan, fluid warmer, vein finder, iStat
- Landing specific supplement
- Local facilities
- Russia based US doctor for coordination







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